

CLAIMS

- 1 1. A networked computer system comprising:
 - 2 (A) a first computer system comprising an e-commerce application;
 - 3 (B) a second computer system coupled to the first computer system, the second
 - 4 computer system comprising a back-end business processing system;
 - 5 (C) an integration node coupled to the first and second computer systems, the
 - 6 integration node receiving messages in a first format from the e-commerce application,
 - 7 converting the messages in the first format to messages in a second format, and sending
 - 8 the messages in the second format to the back-end business processing application.
- 1 2. The networked computer system of claim 1 wherein the first computer system
2 comprises:
 - 3 a first queue for sending messages to the integration node; and
 - 4 a second queue for receiving messages from the integration node.
- 1 3. The networked computer system of claim 1 wherein the second computer system
2 comprises:
 - 3 a first queue for sending messages to the integration node; and
 - 4 a second queue for receiving messages from the integration node.
- 1 4. The networked computer system of claim 1 wherein the integration node receives
2 messages in the second format from the back-end business processing application,
3 converts the messages in the second format to messages in the first format, and sends the
4 messages in the first format to the e-commerce application.

1 6. The networked computer system of claim 1 wherein the messages comprise XML
2 messages, and wherein the integration node comprises:

3 an inbound queue read mechanism that reads information from at least one
4 inbound queue;

5 an XML parser that processes the XML messages;

an XML transformation mechanism that converts an XML message in the first format to a corresponding XML message in the second format, and that converts an XML message in the second format to a corresponding XML message in the first format; and

9 an outbound queue write mechanism that writes at least one converted XML
10 message to an outbound queue.

1 7. The networked computer system of claim 1 wherein the e-commerce application
2 comprises an application implemented using IBM WebSphere Commerce Suite.

1 8. The networked computer system of claim 1 wherein the back-end business
2 processing application comprises an application implemented using J.D. Edwards One
3 World.

1 9. The networked computer system of claim 1 further comprising a mechanism for
2 synchronizing data in a first database accessed by the e-commerce application with data
3 in a second database accessed by the back-end business processing application.

1 10. A networked computer system comprising:
2 (A) a first computer system comprising:
3 an e-commerce application implemented using IBM WebSphere
4 Commerce Suite;
5 a first message queue adapter that communicates with the e-commerce
6 application, the first message queue adapter comprising:
7 a first queue for outbound messages;
8 a second queue for inbound messages;
9 (B) a second computer system comprising:
10 a J.D. Edwards One World business processing application;
11 a second message queue adapter that communicates with the business
12 processing application, the second message queue adapter comprising:
13 a first queue for outbound messages;
14 a second queue for inbound messages;
15 (C) an integration node coupled to the first and second queues of the first message
16 queue adapter, and coupled to the first and second queues of the second message queue
17 adapter, wherein the integration node receives messages in a first format from the e-
18 commerce application via the first queue of the first message queue adapter, converts the
19 messages in the first format to messages in a second format, and sends the messages in
20 the second format to the business processing application via the second queue of the
21 second message queue adapter.

1 11. The networked computer system of claim 10 wherein the integration node
2 receives messages in a second format from the business processing application via the
3 first queue of the second message queue adapter, converts the message in the second
4 format to messages in the first format, and sending the messages in the first format to the
5 e-commerce application via the second queue of the first message queue adapter.

1 13. The method of claim 12 further comprising the step of:
2 (D) the back-end business processing application processing the corresponding
3 XML message in the second format to perform business processing specified in the
4 corresponding XML message in the second format.

1 14. The method of claim 13 further comprising the step of:
2 (E) the back-end business processing application sending a status message to the
3 e-commerce application indicating the success or failure of processing the corresponding
4 XML message in the second format.

1 15. The method of claim 12 wherein step (A) comprises the steps of:
2 (A1) the e-commerce application sending a message to a message server;
3 (A2) in response to the message received from the e-commerce application, the
4 message server formatting the XML message in the first format;
5 (A3) the message server writing the XML message in the first format to a queue.

22. A method for communicating between an e-commerce application implemented using IBM WebSphere Commerce Suite running on a first computer system and a business processing application implemented using J.D. Edwards OneWorld running on a second computer system, the method comprising the steps of:

- (A) the e-commerce application sending a message to a first message server;
- (B) in response to the message received from the e-commerce application, the first message server formatting an XML message in a first format;
- (C) the first message server writing the XML message in the first format to a first queue;
- (D) reading the XML message in the first format from the first queue;
- (E) parsing the XML message in the first format;
- (F) transforming the XML message in the first format to an XML message in a second format using at least one XSL stylesheet;
- (G) writing the XML message in the second format to a second queue;
- (H) a second message server reading the XML message in the second format from the second queue; and
- (I) the second message server sending the XML message in the second format to the back-end business processing application.

23. The method of claim 22 further comprising the step of:

- (J) the back-end business processing application reading the XML message in the second format; and
- (K) the back-end business processing application performing business processing specified in the XML message in the second format.

- 1 24. The method of claim 23 further comprising the step of:
2 (L) the back-end business processing application sending a status message to the
3 e-commerce application indicating the success or failure of processing the XML message
4 in the second format.

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1 25. A method for doing business comprising the steps of:
2 (A) providing a networked computer system comprising:
3 (A1) a first computer system comprising an e-commerce application;
4 (A2) a second computer system coupled to the first computer system, the
5 second computer system comprising a back-end business processing system; and
6 (A3) an integration node coupled to the first and second computer systems,
7 the integration node receiving messages in a first format from the e-commerce
8 application, converting the messages in the first format to messages in a second
9 format, and sending the messages in the second format to the back-end business
10 processing application;
11 (B) entering an order in the e-commerce application;
12 (C) formatting an XML message in the first format that includes information from
13 the order entered in step (B);
14 (D) the integration node converting the XML message in the first format to a
15 corresponding XML message in the second format;
16 (E) the back-end business processing application creating an order as specified in
17 the XML message in the second format.

- 1 26. A computer-readable program product comprising:
- 2 (A) an integration node that reads and writes messages to first and second queues
- 3 that couple the integration node to first and second computer systems, respectively,
- 4 wherein the integration node receives a message in a first format from an e-commerce
- 5 application via the first queue, converts the message in the first format to a corresponding
- 6 message in a second format, and sends the message in the second format to a back-end
- 7 business processing application;
- 8 (B) signal bearing media bearing the integration node.

- 1 27. The computer-readable program product of claim 26 wherein the signal bearing
- 2 media comprises recordable media.

- 1 28. The computer-readable program product of claim 26 wherein the signal bearing
- 2 media comprises transmission media.

- 1 29. The computer-readable program product of claim 26 wherein the integration node
- 2 reads and writes messages to third and fourth queues that couple the integration node to
- 3 the first and second computer systems, respectively, wherein the integration node receives
- 4 a messages in a second format from the business processing application via the fourth
- 5 queue, converts the message in the second format to a message in the first format, and
- 6 sends the message in the first format to the e-commerce application via the third queue.
